Author Index

Anderson, D.	205
Arai, T. 93	
Aratono, M.	61

Bowen,	B.D.	325,	345
Brinen.	J.S.	133	

Candau, SJ. 251	
Cantú, L. 169	
Caron, G. 263	
Carruthers, J.D. 13	3
Cohen Stuart, M.A.	15
Corti, M. 169	

Degiorgio, V. 1	69
Derjaguin, B.V.	49
Desnoyers, J.E.	263
Domen W 92	

Fleer, G.J.	15
Friberg, S.E.	285
Fujisawa, T.	93

Haller, G.L.	133
Hoffmann, H.	225

Ikeda, N.	61
Iwasaki, Y.	103

Jada, A. 251

Kajiwara, I.	61
Karlström, G.	205
Kimizuka, N.	79
Kunitake, T.	79
Kunjappu, J.T	. 305
Kurabayashi.	Г. 103

Lang, J. 251 Levine, S. 325, 345 Lindman, B. 205 Ljunggren, S. 179 Lyklema, J. 1

Maruya, K. 9	3
McMillan, M.	133
Menezes, J.L.	365
Motomura, K.	61

Nancollas, G.H.	295
Nishizawa, J.	103
Norde, W. 1	

Oetter, G.	225
Olsson, U.	205
Onishi, T.	93
Otto A	27

Partridge, S.J. 32	5, 34
Pelssers, E.G.M.	15
Perez, L. 295	
Perron, G. 263	
Piazza, R. 169	
Prochaska, K. 31	3

Rennie, A.	169
Rong G	285

į

Takehara, M. 149 Tamaru, K. 125

Ueda, I. 37

Ward, A.J.I.	285	
Wennerström,	H.	205

Yan, J. 365

Zana, R. 251



Subject Index

Acidity, 133

N°-Acylamino acid, 149

N°-Acyl-L-arginine ethyl ester, 149

Acylglutamate, 149

N-Acyl-L-glutamic acid, 149

Adhesion, 1

Adsorbates, 27

Adsorption, 1, 61, 103, 305, 313

of surfactants, 365

Adsorption-assisted desorption, 125

Alcohols, 263

Alumina, 305

Amino acid based surfactant, 149

Anesthesia theory, 37

Azobenzene amphiphile, 79

Bacterial adhesion, 1 Bicontinuous, 205 Boundary layers, 49 Boundary phases, 49

Calcium phosphate transformation, 25
Capillary condensation, 113
Capillary interaction, 345
Catalyst supports, 133
Cerium oxide catalyst, 93
Cold-deposited silver films, 27
Contact angles, macroscopic, 365
Critical micelle concentration, 61
Crystal growth kinetics, 295
Cubic phase, 225

DC-resistivity, 27
Desorption,
rate of, 125
Dicalcium phosphate dihydrate, 295
Dissolution kinetics, 295
Double layer interaction, 235

Effective interfacial tension, 345 Electrostriction, 37 Emulsion stabilization, 325, 345 Emulsions, 263 Ethylene formation, 93

Flocculation mechanisms, 15 Flotation, 305 Ganglioxides, 169
Gas molecule adsorption, 103
Gouy-Chapman electrostatics, 179

High pressure, 37 Hydrocarbon chain surface pressure, 179

Interfacial tension, 61, 225 Interfacial water, 37 Interparticle interactions, 169 Ion binding, 285 Isobutene formation, 93 Isotope jump method, 125

Kinetics, 15

Lamellar phase, 285
Langmuir–Blodgett films, 71, 79
N-Lauroyl-L-glutamic acid α , γ -dibutylamide, 149
N*-Lauroyl-L-lysine, 149
Light scattering, 169
Lipid bilayer, 37
Luminescent probe, 305

Mass spectrometric analysis, 103
Micelles, 169, 225
Microemulsion gel, 225
Microemulsions, 205, 251
Micropore filling, 113
Minimal surfaces, 205
Mixed oxides, 133
Mixed surfactant monolayers, 179
Molecular orientation, 79

Near-edge X-ray fine structure, 71 Neutron scattering, 169 NMR, deuterium, 285 self-diffusion, 205 ²⁹Si, 133

Non-aqueous phases, 285

Octacalcium phosphate, 295 Oil/water dropleta, 325, 345 Oligo-oxyethylene amine derivatives, 313 Particle partitioning, 325
Phase transition, 37
Physisorption, 113
Poisson-Boltzmann approximation, 179
Polymer bridging, 15
Porosity, 133
Porous solids, 113
Precursor state, 125
Protein adsorption, 1

Raman scattering, 27 Reflectance spectroscopy, 79 Reverse orientation model, 305 Reversed micelle, 37

Salt effect on surfactant adsorption, 179
Scanning tunneling microscopy, 71
Selective hydrocarbon formation, 93
Silica-alumina, 133
Silver island films, 27
Sodium dodecyl sulfate, 305
Sodium perfluorooctanoate, 61
Solid-liquid interface, 305
Solubilization, 225

Solvation, 285
force, 325
Stepwise adsorption isotherm, 179
Surface charge, 37
Surface enhanced Raman scattering, 27
Surface forces, 49
Surface monolayer, 79
Surface phase transition, 179
Surfactant, 285
microstructures, 205
penetration of monolayers, 179
solution/air interface, 179

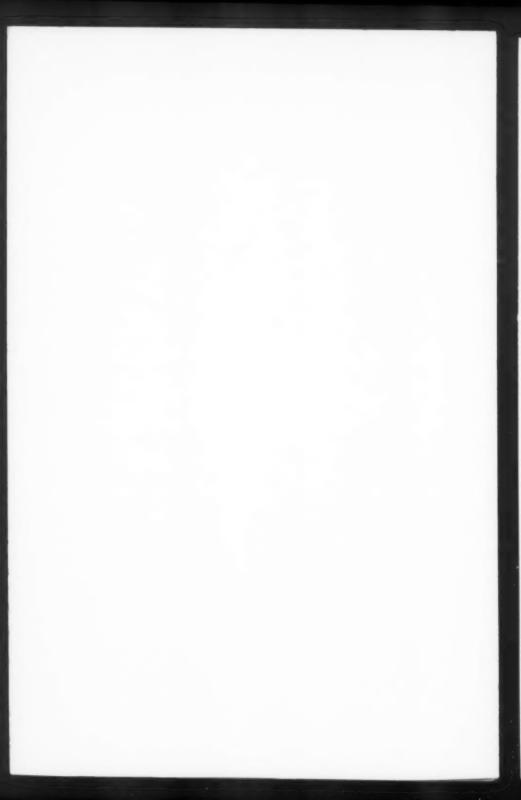
Theory of surface tension, 179 Thermal stability, 133 Thermodynamic study, 61, 263 Toluene/water interface, 313

Van der Waals interactions, 345 Vibrational spectroscopy, 71 Volatile anesthetics, 37

Water-in-oil microemulsions, 251

Zirconium oxide catalyst, 93





Contents

(Abstracted/indexed in: Chemical Abstracts; Current Contents: Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS)

VOLUME 38 (1989)

Special issue: Aspects of Interfaces. Selected Papers from the 6th International Conference on Surface and Colloid Science, Hakone, Japan, 5–10 June 1988.

Preface	vii
Protein adsorption and bacterial adhesion to solid surfaces. A colloid-chemical approach	
W. Norde and J. Lyklema (Wageningen, The Netherlands)	1
Kinetic aspects of polymer bridging: Equilibrium flocculation and nonequilibrium flocculation	
The electronic contribution to SERS. The present experimental status	15
A. Otto (Düsseldorf, F.R.G.)	27
Anesthesia: An interfacial phenomenon	
I. Ueda (Salt Lake City, UT, U.S.A.)	37
The influence of surface forces on the formation of structural peculiarities of the boundary layers of liquids and boundary phases	
B.V. Derjaguin (Moscow, U.S.S.R.)	49
Thermodynamic study of the adsorption of sodium perfluorooctanoate at the water/ hexane interface	
K. Motomura, I. Kajiwara, N. Ikeda and M. Aratono (Fukuoka, Japan)	61
J.D. Swalen (San Jose, CA, U.S.A.)	71
Molecular orientation of azobenzene amphiphiles in surface monolayers and Langmuir- Blodgett multilayers	
N. Kimizuka and T. Kunitake (Fukuoka, Japan)	79
The selective formation of hydrocarbons from CO hydrogenation over oxide catalysts	
T. Onishi, K. Maruya, K. Domen, T. Fujisawa and T. Arai (Yokohama, Japan)	93
J. Nishizawa, T. Kurabayashi and Y. Iwasaki (Sendai, Japan)	103
The use of gas adsorption for the characterization of porous solids	. 200
K.S.W. Sing (Uxbridge, United Kingdom)	113
Dynamic behavior in adsorbed layers on a solid surface	
K. Tamaru (Tokyo, Japan)	12!
A 29Si NMR investigation of the structure of amorphous silica-alumina supports	2.00
M. McMillan (New Haven, CT, U.S.A.), J.S. Brinen, J.D. Carruthers (Stamford, CT,	
U.S.A.) and G.L. Haller (New Haven, CT, U.S.A.)	. 13
Properties and applications of amino acid based surfactants	
M. Takehara (Kawasaki, Japan)	149
Light and neutron scattering study of strongly interacting ionic micelles	
V. Degiorgio (Pavia, Italy), L. Cantú (Milan, Italy), M. Corti, R. Piazza (Pavia, Italy)	
and A. Rennie (Grenoble, France)	. 16

A molecular theory of the surface tension of surfactant solutions	
J.C. Eriksson and S. Ljunggren (Stockholm, Sweden)	19
On the demonstration of bicontinuous structures in microemulsions	
B. Lindman, K. Shinoda, U. Olsson, D. Anderson, G. Karlström and H. Wennerström	
(Lund, Sweden))5
Ringing gels and their fascinating properties	
G. Oetter and H. Hoffmann (Bayreuth, F.R.G.)	25
Structure and dynamics of water-in-oil microemulsions	
A. Jada, J. Lang, SJ. Candau and R. Zana (Strasbourg, France)	51
A thermodynamic study of alcohols in emulsions	
J.E. Desnoyers, G. Caron and G. Perron (Sainte-Foy, Canada)	63
Solvation and ion binding in a non-aqueous surfactant lamellar phase	
A.J.I. Ward, G. Rong and S.E. Friberg (Potsdam, NY, U.S.A.)	85
End of special issue papers	
The phase transformation of calcium phosphate dihydrate into octacalcium phosphate in aqueous suspensions	
L. Perez, L.J. Shyu and G.H. Nancollas (Buffalo, NY, U.S.A.)	95
Tris(2,2'-bipyridyl)ruthenium(II) chloride as a probe of adsorption characteristic of sodium dodecyl sulfate on alumina	
J.T. Kunjappu and P. Somasundaran (New York, NY, U.S.A.)	05
Adsorption of some oligo-oxyethylene amine derivatives at the toluene/water interface	
J. Szymanowski and K. Prochaska (Poznań, Poland)	13
Stabilization of emulsions by fine particles, I. Partitioning of particles between continuous phase and oil/water interface	
S. Levine, B.D. Bowen and S.J. Partridge (Vancouver, Canada)	25
Stabilization of emulsions by fine particles. II. Capillary and van der Waals forces between particles	
S. Levine, B.D. Bowen and S.J. Partridge (Vancouver, Canada)	345
The mechanism of alteration of macroscopic contact angles by the adsorption of surfactants	
J.L. Menezes, J. Yan and M.M. Sharma (Austin, TX, U.S.A.)	365
Book Review	391
Author Index	393
Subject Index	395
Contents (Vol. 38)	

